



Product: [9953](#)

Electronic, 3 C #16 Str TC, PVC-NYL Ins, OA TC Brd, PVC Jkt

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Product Description

Electronic, 3 Conductor 16AWG (19x29) Tinned Copper, PVC-NYL Insulation, Overall Tinned Copper Braid(90%) Shield, PVC Outer Jacket

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Suitable Applications: | MIL-W-16878 (Type B) Spec; up to 600V analog signals ; up to 600V voltage control |
|------------------------|---|

Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Material |
|--------------|-----------------|--------|-----------|--------------------|
| Conductor(s) | 3 | 16 AWG | 19x29 | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|--------------|--|--------------------|--------------------------|-------------------|
| Conductor(s) | PVC/Nylon - Polyvinyl Chloride + Nylon | 0.016 in (0.41 mm) | 0.088 in (2.2 mm) | White, Black, Red |

Outer Shield

| Shield Type | Material | Coverage |
|-------------|--------------------|----------|
| Braid | Tinned Copper (TC) | 95% |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter |
|--------------------------|--------------------|---------------|
| PVC - Polyvinyl Chloride | 0.025 in (0.64 mm) | 0.264 in |

| | |
|-----------------------------------|-----------|
| Overall Cable Diameter (Nominal): | 0.264 in. |
|-----------------------------------|-----------|

Electrical Characteristics

Electricals

| Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current |
|--------------------|-------------------------------|---|--------------------------------|
| 4.4 Ohm/1000ft | 58 pF/ft (190 pF/m) | 101 pF/ft (331 pF/m) | 6.5 Amps per Conductor at 25°C |

Voltage

| Voltage Rating |
|----------------|
| 600 V |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|-----------------|
| 105°C | -20°C To +105°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-------------------|-------------------|
| 2.64 in (67.1 mm) | 2.64 in |

| | |
|--------------------|-----------------|
| Max. Pull Tension: | 120 lbs (54 kg) |
| Bulk Cable Weight: | 52 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|--|
| Flammability / Reaction to Fire: | IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: Eca |
| Military Compliance: | MIL-W-16878E/17 (insulated conductor) |
| European Directive Compliance: | EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| UK Regulation Compliance: | UKCA Mark |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |

History

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|----------------------|--|
| Update and Revision: | Revision Number: 0.390 Revision Date: 05-05-2023 |
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Part Numbers

Variants

| Item # | Color | UPC | Footnote |
|--------------|-------|--------------|----------|
| 9953 009100 | White | 612825265139 | |
| 9953 0091000 | White | 612825265146 | C |
| 9953 009500 | White | 612825265153 | C |

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